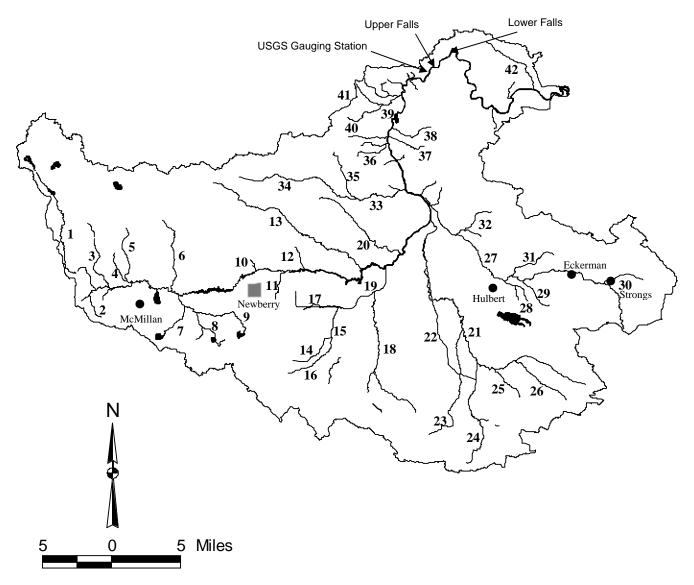
## **FIGURES**

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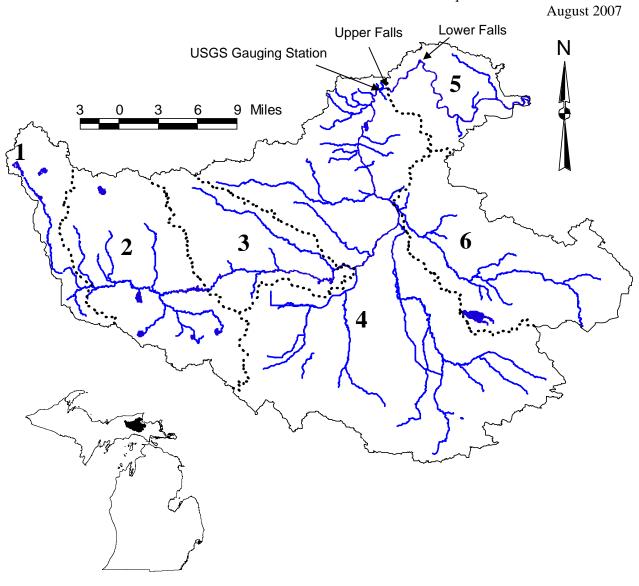


Figure 1.—The Tahquamenon River watershed.



1. Tahquamenon River	12. Sixteen Creek	23. West Branch Hendrie River	33. Murphy Creek
2. Kings Creek	13. Auger River	24. South Branch Hendrie River	34. West Branch Murphy Creek
3. Syphon Creek	14. First Creek	25. Quinn Creek	35. North Branch Murphy Creek
4. Red Creek	15. West Branch Sage River	26. Naugle Creek	36. Baird Creek
5. East Creek	16. Third Creek	27. East Branch Tahquamenon River	37. O'Keefe Creek
6. Silver Creek	17. Big Ditch	28. Rileys Creek	38. Schouts Creek
7. East Lake Creek	18. East Branch Sage River	29. Grant Creek	39. Linton Creek
8. Carlson Creek	19. Sage River	30. Creek #8	40. South Branch Linton Creek
9. Teaspoon Creek	20. Gimlet Creek	31. Creek #14	41. West Branch Linton Creek
10. Otto Brandt Creek	21. Hendrie River	32. Big Beaver Creek	42. Cheney Creek
11. 39 Creek	22. McLeod Ditch	_	

Figure 2.—Named tributaries to the Tahquamenon River. Names were taken from the United States Geological Survey (USGS) topographic maps and county maps produced by the Michigan Department of Natural Resources (MDNR) Engineering, Cartographic Services.



- 1. Upper River Segment
- 2. Dollarville Segment
- 3. Marsh Drainage Segment
- 4. Middle River Segment
- 5. Lower River Segment
- 6. East Branch Tahquamenon River

Figure 3.-Mainstem and East Branch valley segments of the Tahquamenon River.

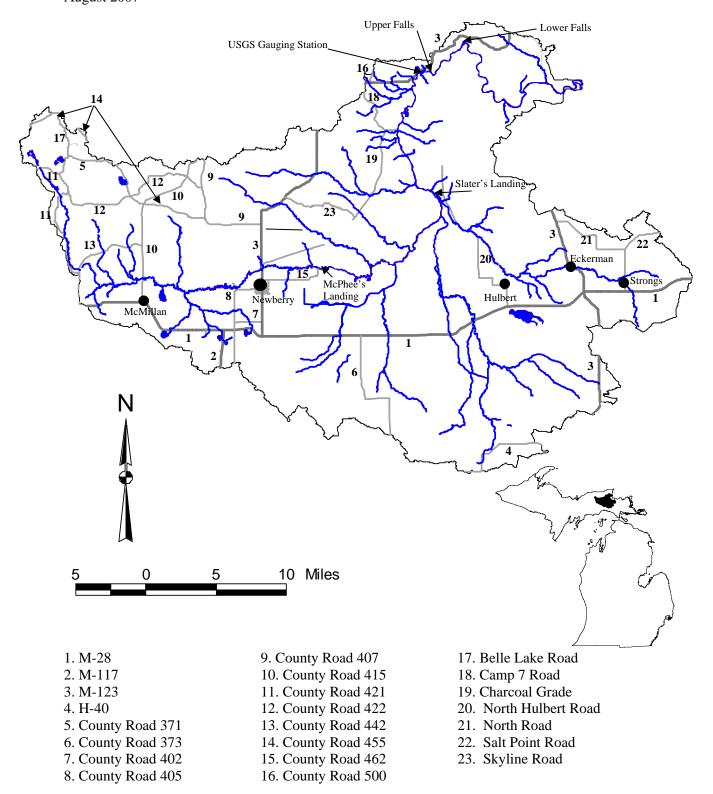


Figure 4.–Major roads within the Tahquamenon River watershed.

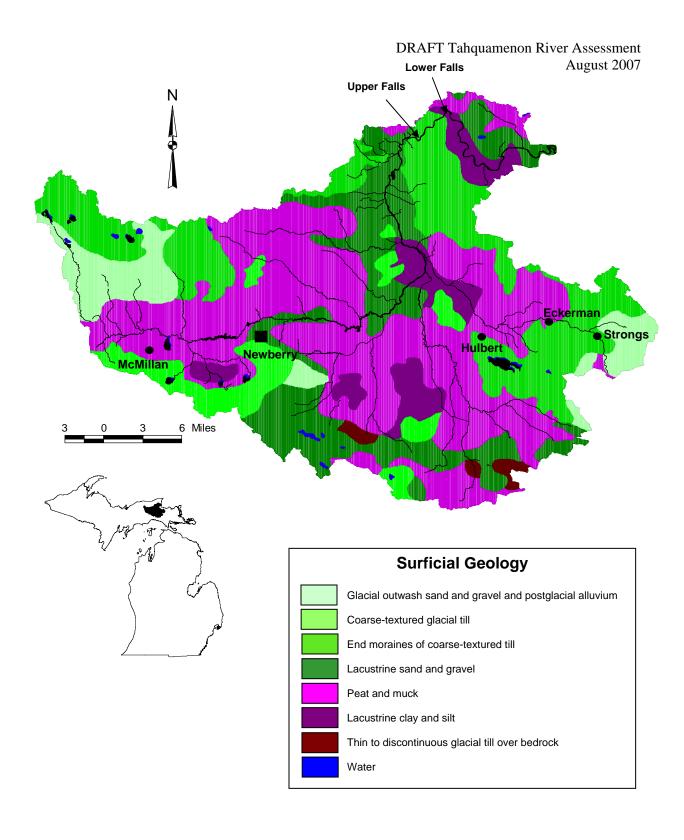
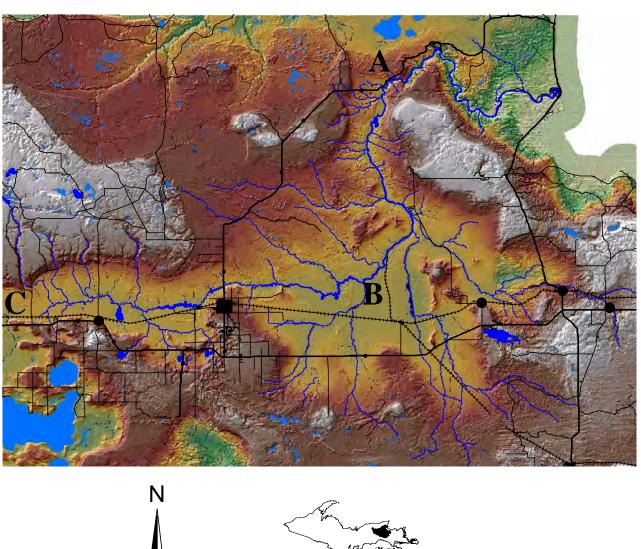


Figure 5.–Surface geology of the Tahquamenon River watershed. Data from Farrand and Bell (1982).



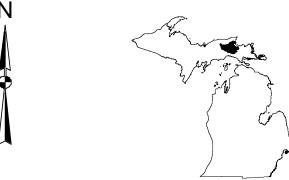


Figure 6.—Surface elevation map of the Tahquamenon River watershed and surrounding area. An arc connecting A, B, and C follows a former outlet of glacial Lake Minong (a precursor to Lake Superior). Sand dunes were formed around 10,000 years before present at Site A by glacial Lake Minong as a lower outlet (St. Mary's River) became available. Site B is hypothesized to be a 30-mile wide eddy as the drainageway turned westward toward C, eventually entering into the present-day East Branch Fox and Manistique rivers. Site C shows the present divide between the Lake Michigan and Lake Superior watersheds. The horizontal striations along the right side of the picture are due to a data anomaly (Walt Loope, United States Geological Survey, Munising, unpublished data).

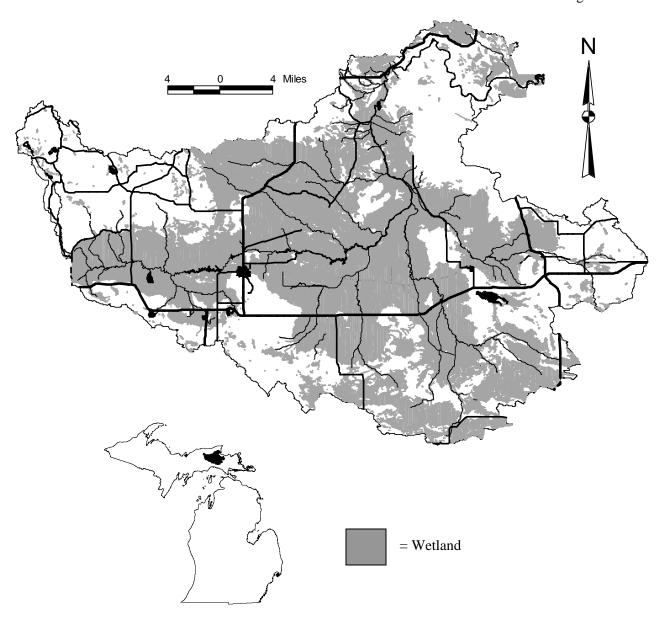


Figure 7.—Wetland composition of the Tahquamenon River watershed, as determined by the Michigan Department of Environmental Quality. Data is from the MDNR Spatial Information Resource Center, unpublished data, 2004.

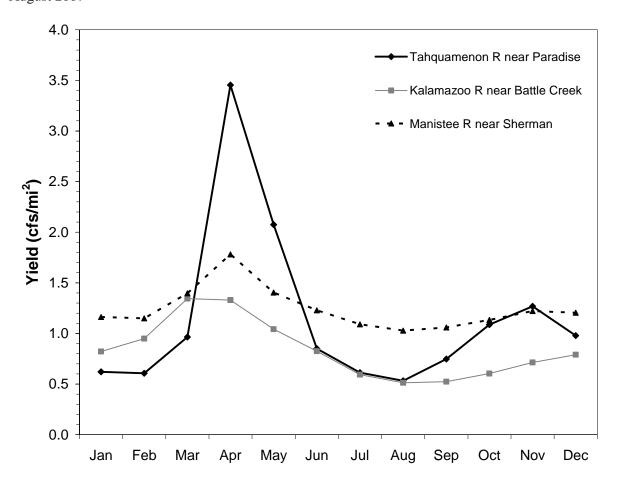


Figure 8.—Average monthly yield (mean monthly flow divided by catchment area) for the period of record at three similarly sized Michigan rivers with USGS gauges. Data from Blumer et al. (2004).

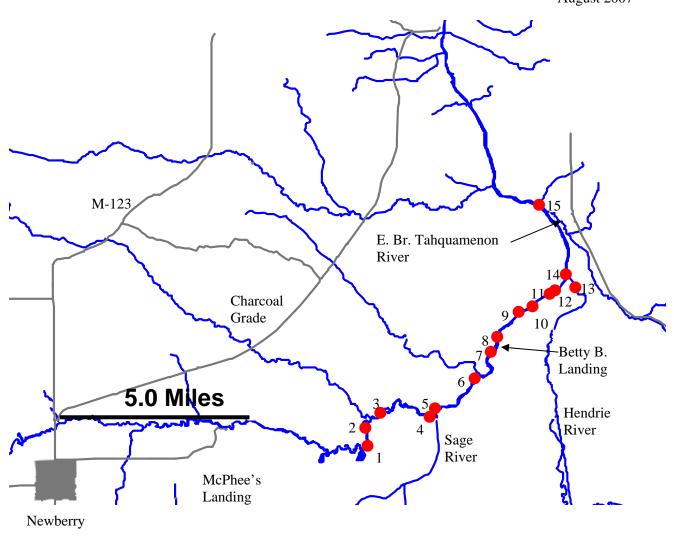


Figure 9.—Sediment sampling locations in the Tahquamenon River, August 22-23, 2005. Samples were taken with a Ponar dredge. Data summary (Table 22) from each site consists of multiple samples taken in cross-section.

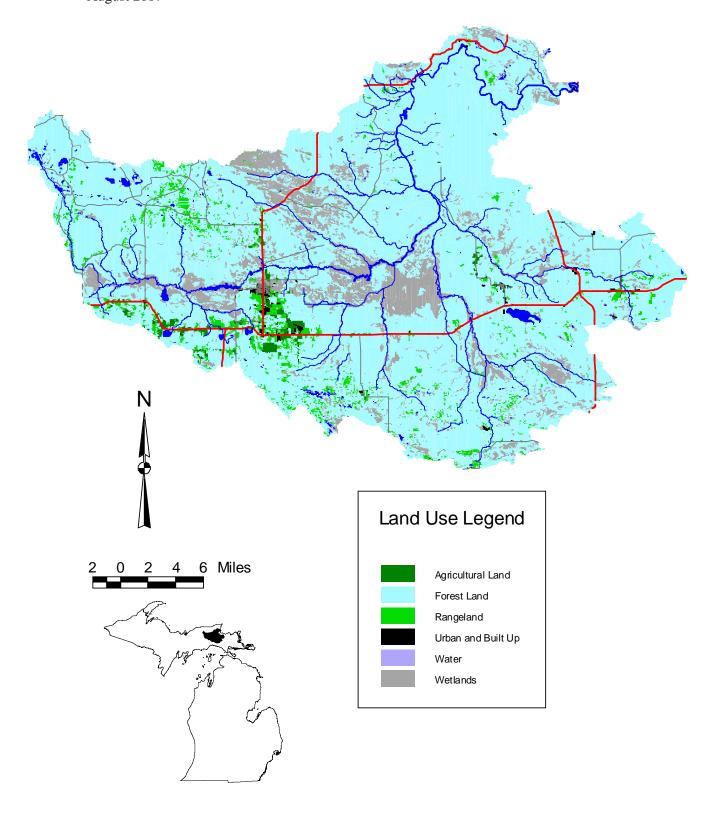


Figure 10.–Land type and use in the Tahquamenon River watershed. Data from MDNR Spatial Information Resource Center, unpublished data, 2004.

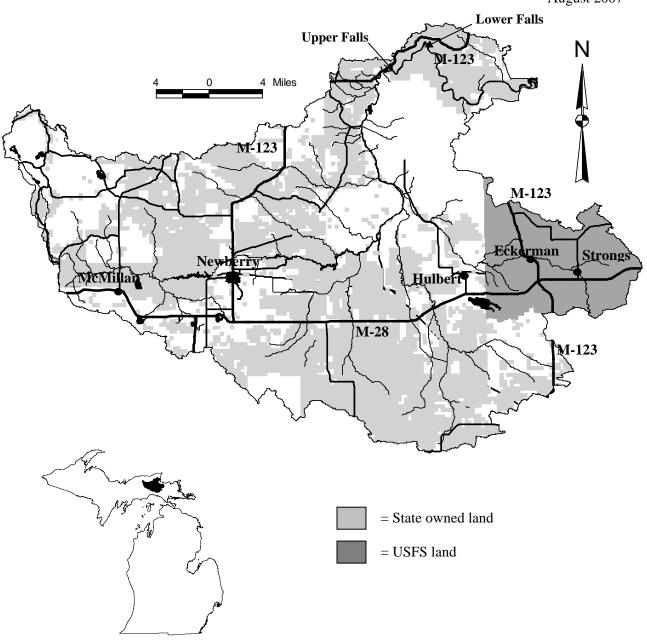


Figure 11.—Public land ownership in the Tahquamenon River watershed. State ownership is from the MDNR Spatial Information Resource Center, unpublished data, 2004. The USFS land ownership is from the U.S. Forest Service Office, Escanaba, Michigan, unpublished shapefile data, 2005.

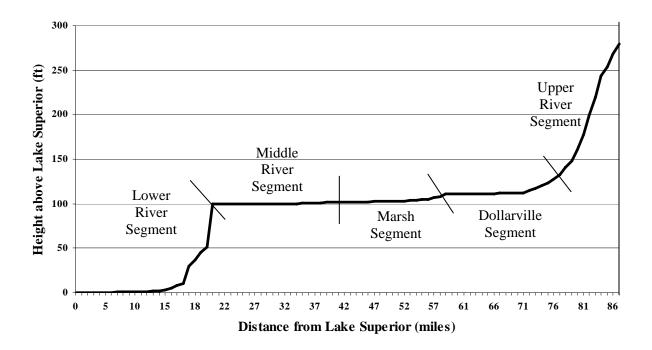


Figure 12.—Mainstem elevation changes from Lake Superior to headwaters. River segments are those described in the geography section.

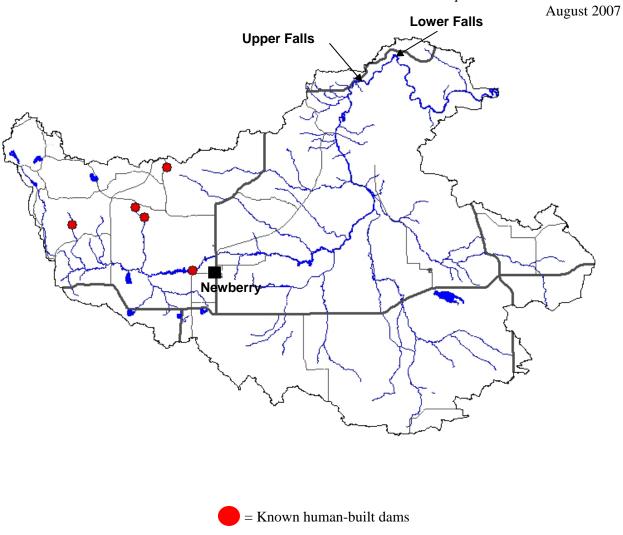


Figure 13.—Dams in the Tahquamenon River watershed (Department of Environmental Quality, Dam Safety Section), modified to eliminate earth-bermed, isolated ponds, July 2005.

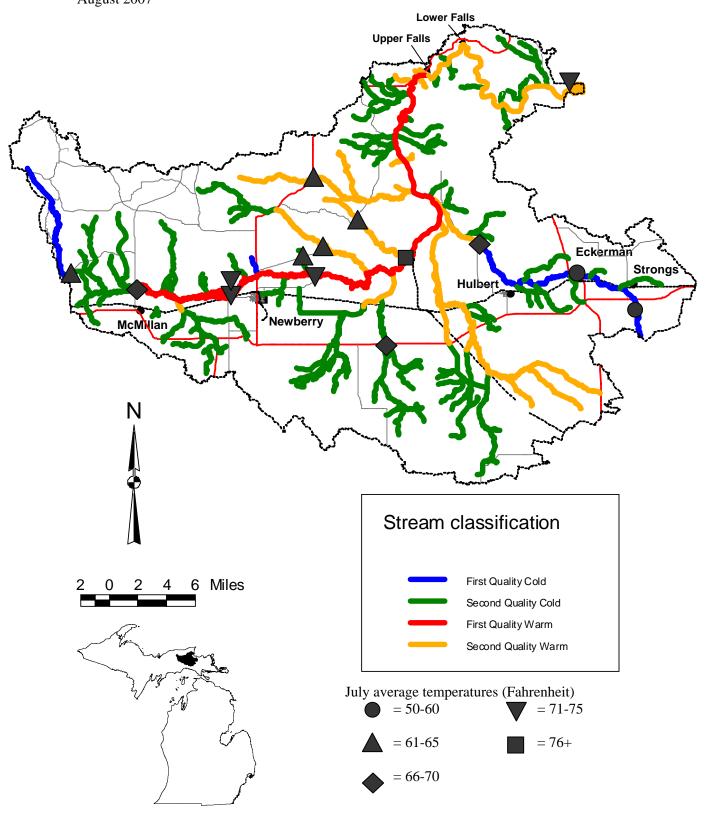
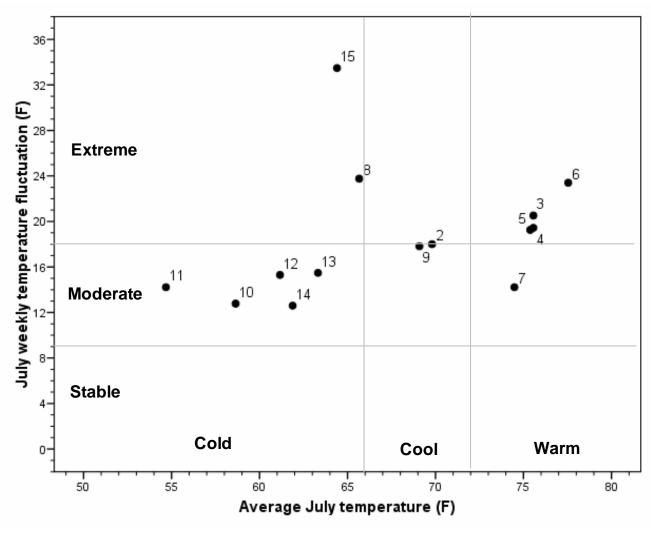


Figure 14.—Stream classification and temperature data logger locations during 2004 and 2005 for the Tahquamenon River watershed. Classes are defined in Anonymous (2000a).



- 1 Tahquamenon River at the County Road 442 Bridge
- 2 Tahquamenon River at the County Road 415 Bridge
- 3 Tahquamenon River at Dollarville Dam, upstream side
- 4 Tahquamenon River at Dollarville Dam, downstream side
- 5 Tahquamenon River at McPhee's Landing
- 6 Tahquamenon River about two miles downstream from the Sage River confluence
- 7 Tahquamenon River at the mouth
- 8 East Branch Sage River at the M-28 Bridge
- 9 East Branch Tahquamenon River at the N Hulbert Road Bridge
- 10 East Branch Tahquamenon River at the old state hatchery site
- 11 East Branch Tahquamenon River about ½ mile upstream from the M-28 Bridge
- 12 Sixteen Creek at the Charcoal Grade Bridge
- 13 Auger Creek at the Charcoal Grade Bridge
- 14 Murphy Creek at the M-123 Bridge
- 15 Gimlet Creek at the Charcoal Grade culverts

Figure 15.—Temperature regime profiles for sites on the Tahquamenon River and selected tributaries. Calculations and format follow the classification system described in Wehrly et al. (1999).

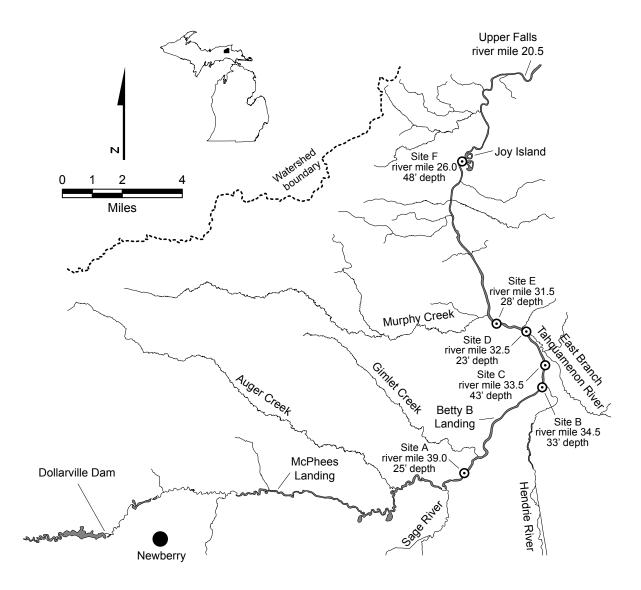


Figure 16.—Limnological vertical profile sites in the Tahquamenon River, September 1, 2006. Data from these sites are shown in Table 15.

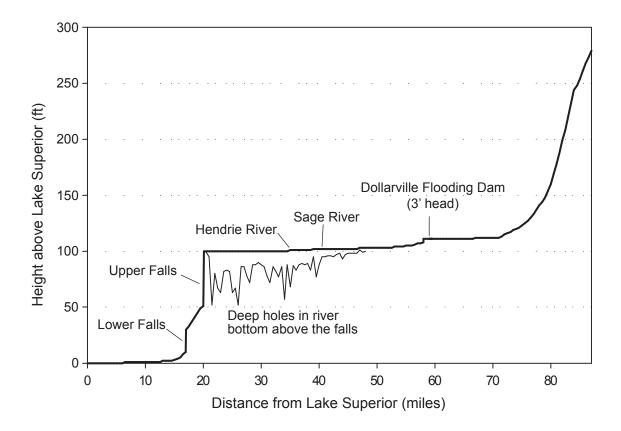


Figure 17.—Deep holes above the Upper Falls documented from survey data. Mainstem elevation changes from headwaters to Lake Superior. Elevation numbers are height above Lake Superior in feet. Most known holes are somewhat smaller than the 0.5 mi figure resolution. Also, some holes may be deeper, as there are several very small diameter deep spots that are easily missed during the sonar graphing effort.

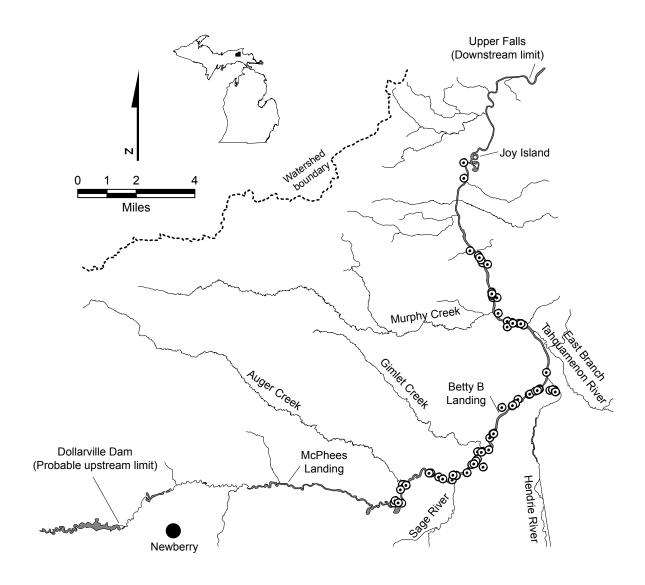


Figure 18.-Walleye locations observed by radio tracking in the Tahquamenon River, Middle Segment, during April 2005. Data from 13 fish implanted with radio transmitters during October 2004.

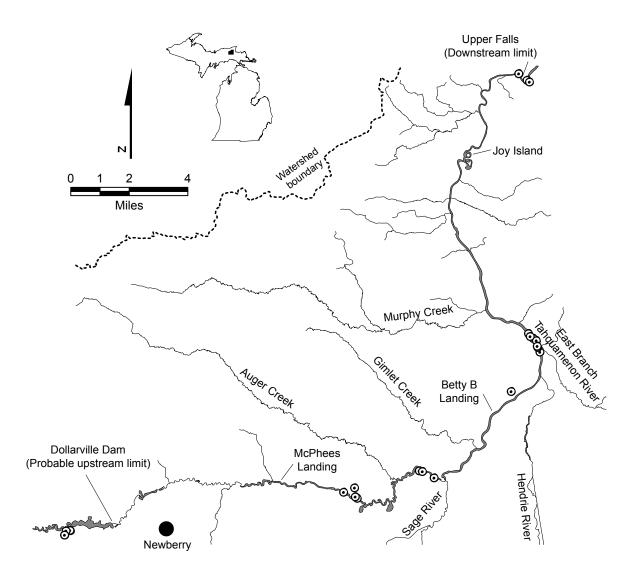


Figure 19.–Muskellunge locations observed by radio tracking in the Tahquamenon River, Middle River segment, during May 2005. Data from seven fish implanted with radio transmitters during October 2004.

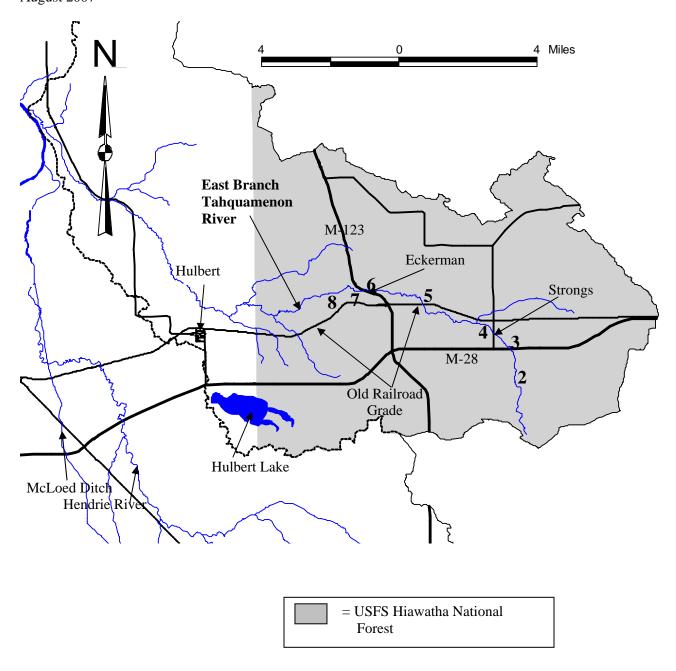


Figure 20.–Location of electrofishing inventory stations in the East Branch Tahquamenon River in 1995 and 2004 (Bassett 2005). There was no Site 1 sampled in 2004. Data from the 2004 survey occur in Table 25.

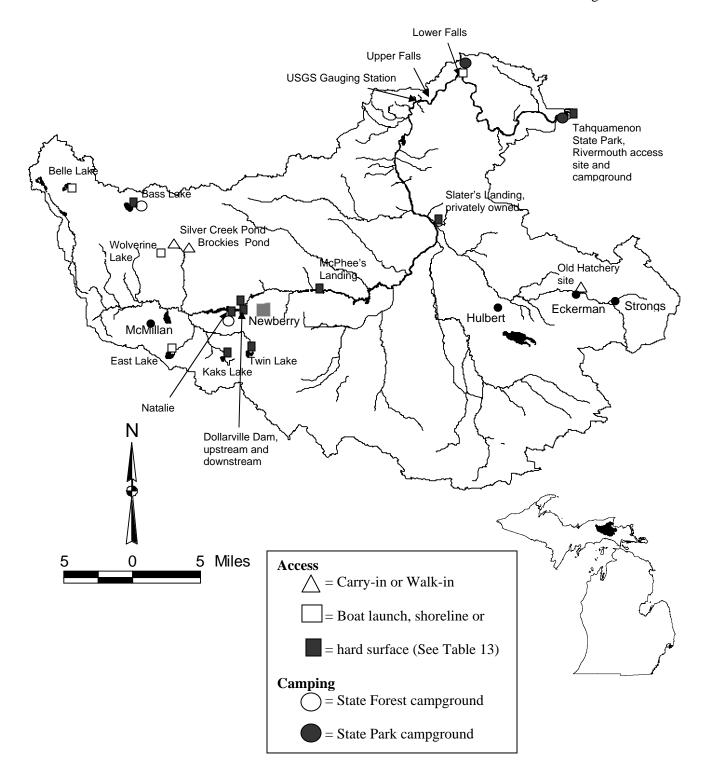


Figure 21. – Tahquamenon River watershed access sites and campgrounds.

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